



Impulse® 12 D

Bi-amplified Class D powered speaker system

Operating
Manual





Intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



Intended to alert the user of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

CAUTION: Risk of electrical shock — DO NOT OPEN!

CAUTION: To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To prevent electrical shock or fire hazard, this apparatus should not be exposed to rain or moisture, and objects filled with liquids, such as vases, should not be placed on this apparatus. Before using this apparatus, read the operating guide for further warnings.



Este símbolo tiene el propósito, de alertar al usuario de la presencia de “(voltaje) peligroso” sin aislamiento dentro de la caja del producto y que puede tener una magnitud suficiente como para constituir riesgo de descarga eléctrica.



Este símbolo tiene el propósito de alertar al usuario de la presencia de instrucciones importantes sobre la operación y mantenimiento en la información que viene con el producto.

PRECAUCION: Riesgo de descarga eléctrica ¡NO ABRIR!

PRECAUCION: Para disminuir el riesgo de descarga eléctrica, no abra la cubierta. No hay piezas útiles dentro. Deje todo mantenimiento en manos del personal técnico cualificado.

ADVERTENCIA: Para prevenir choque eléctrico o riesgo de incendios, este aparato no se debe exponer a la lluvia o a la humedad. Los objetos llenos de líquidos, como los floreros, no se deben colocar encima de este aparato. Antes de usar este aparato, lea la guía de funcionamiento para otras advertencias.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur la présence d'une tension dangereuse pouvant être d'amplitude suffisante pour constituer un risque de choc électrique.



Ce symbole est utilisé dans ce manuel pour indiquer à l'utilisateur qu'il ou qu'elle trouvera d'importantes instructions concernant l'utilisation et l'entretien de l'appareil dans le paragraphe signalé.

ATTENTION: Risques de choc électrique — NE PAS OUVRIR!

ATTENTION: Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve à l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confiez l'entretien et la réparation de l'appareil à un réparateur Peavey agréé.

AVIS: Dans le but de réduire les risques d'incendie ou de décharge électrique, cet appareil ne doit pas être exposé à la pluie ou à l'humidité et aucun objet rempli de liquide, tel qu'un vase, ne doit être posé sur celui-ci. Avant d'utiliser de cet appareil, lisez attentivement le guide fonctionnant pour avertissements supplémentaires.



Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von Ausreichender Stärke sind, um einen elektrischen Schlag verursachen zu können.



Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

VORSICHT: Risiko — Elektrischer Schlag! Nicht öffnen!


VORSICHT: Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vom Anwender repariert werden könnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.

WARNUNG: Um elektrischen Schlag oder Brandgefahr zu verhindern, sollte dieser Apparat nicht Regen oder Feuchtigkeit ausgesetzt werden und Gegenstände mit Flüssigkeiten gefüllt, wie Vasen, nicht auf diesen Apparat gesetzt werden. Bevor dieser Apparat verwendet wird, lesen Sie bitte den Funktionsführer für weitere Warnungen.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electrical products, basic cautions should always be followed, including the following:



1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding plug. The wide blade or third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point they exit from the apparatus.
11. Only use attachments/accessories provided by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13.  Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Never break off the ground pin. Write for our free booklet "Shock Hazard and Grounding." Connect only to a power supply of the type marked on the unit adjacent to the power supply cord.
16. If this product is to be mounted in an equipment rack, rear support should be provided.
17. Note for UK only: If the colors of the wires in the mains lead of this unit do not correspond with the terminals in your plug, proceed as follows:
 - a) The wire that is colored green and yellow must be connected to the terminal that is marked by the letter E, the earth symbol, colored green or colored green and yellow.
 - b) The wire that is colored blue must be connected to the terminal that is marked with the letter N or the color black.
 - c) The wire that is colored brown must be connected to the terminal that is marked with the letter L or the color red.
18. This electrical apparatus should not be exposed to dripping or splashing and care should be taken not to place objects containing liquids, such as vases, upon the apparatus.
19. The on/off switch in this unit does not break both sides of the primary mains. Hazardous energy can be present inside the chassis when the on/off switch is in the off position. The mains plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
20. Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

Duration Per Day In Hours	Sound Level dBA, Slow Response
8	90
6	92
4	95
3	97
2	100
1 1/2	102
1	105
1/2	110
1/4 or less	115

According to OSHA, any exposure in excess of the above permissible limits could result in some hearing loss. Ear plugs or protectors to the ear canals or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss, if exposure is in excess of the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

SAVE THESE INSTRUCTIONS!

Impulse® 12D

Thank you for purchasing the class D powered Peavey® Impulse® 12D. The Impulse® 12D features a bi-amped power section that provides 1200 watts of peak power for the woofer and 150 watts of peak power for the ribbon driver tweeter, both with Peavey-exclusive DDT™ compression. Featuring a 12" Neo dual voice coil Scorpion® woofer and the RD™2.6 true ribbon driver, the Impulse® 12D provides two independent mixed input channels, each with Gain control and a mic/line gain switch, and each channel features a combo jack with 1/4" TRS & female XLR and a balanced input with volume control.

Features

- * Bi-amplified Class D powered speaker system
- * 1200 watts peak woofer power, both power amps have DDT compression
- * No Noisy Fan! Natural air convection cooling is silent.
- * 12" Neodymium Dual Voice Coil Scorpion® woofer
- * Peavey RD™ 2.6 ribbon driver tweeter on a low-coloration waveguide
- * Woofer servo for reduced woofer distortion
- * DynaQ™ circuit provides tone shaping options, including automatic equal loudness contour
- * Peak SPL up to 131 dB with music!
- * Two independent mixed input channels, with Gain control and mic/line gain switch
- * Each channel features a combo jack with 1/4" TRS & female XLR balanced input
- * Input 1 has a Euro-style jack connector and Input 2 has a pair of RCA jacks
- * Output connectors include: XLR, TRS 1/4", and Euro-style jack connector
- * Mounting bay for optional input function modules
- * Hand grips on each front side, and one full handle on the right side
- * Perforated steel grille
- * Rugged polypropylene molded enclosure
- * Pole mount molded-in
- * Reduced weight – Only 39 pounds!
- * Top, bottom and side flying point insert groups mate with Versamount™ 70

DESCRIPTION

The Peavey Impulse® 12D is a powered, bi-amplified, two-way speaker system engineered to provide very high levels of performance in a compact powered loudspeaker. This two-way powered system is comprised of a 1200 W peak class D power amplifier driving a 12" Neodymium magnet based, dual voice coil Scorpion® woofer. The RD™2.6 true ribbon tweeter is driven by a 150 W peak class D power amplifier, and is coupled to a low coloration waveguide with a coverage pattern of 100° horizontal by 15° vertical.

The Impulse® 12D is capable of up to 131 dB peak SPL. The enclosure utilizes tough polypropylene in an injection-molded plastic modified-trapezoidal form, with a coated perforated steel grille to offer an attractive yet durable powered speaker system. The cabinet and grille are shaded a dark-grey (an off-white version is also available).

Two independent mixed input channels each offer a level control and a balanced input to the preamp/EQ electronics. Each channel has a combo female XLR and 1/4" TRS phone jack. It is switchable between mic-level and line-level sensitivity. Channel one has an additional Euro-style jack connector, while channel 2 has an additional pair of RCA jacks. A line out section has XLR, TRS 1/4" phone, and Euro-style jack connectors. These outputs allow linking of additional speaker systems feed of the signal to a powered subwoofer, or etc.

Included in the input panel is a bay for optional function modules such as a Wireless Receiver, Digital Audio Input or a 10-band EQ.

Extensive tone shaping is available via DynaQ™ which offers Bass Enhancement, Contour and a Music or Speech mode. As part of the signal processing available, a woofer servo senses back-EMF that is not a result of the drive signal from the woofer voice coil and subtracts the error so that the woofer cone follows the drive waveform more precisely. The Contour circuit is for accentuating bass and treble at low listening volume levels.

The power amplifiers providing the bi-amplification are low-distortion, Class-D units providing 1200 W peak available power into the nominal 4 ohm load of the woofer, and a 150 W peak available power into the nominal 8 ohm load of the tweeter. The woofer amplifier uses IPR switching technology, and the power supply for both amps is a switch mode type for low weight and high efficiency. Both amplifiers feature

our patented DDT™ compression, which virtually eliminates audible power amplifier clipping. Cooling is via natural air convection - no noisy fan!

Molded-in hand grips on either side of the front and a full handle on the right side provide ease of transport, while multiple mounting points (top, bottom and right side) for the Peavey Versamount™ 70 Plus mounting bracket allow maximum utility.

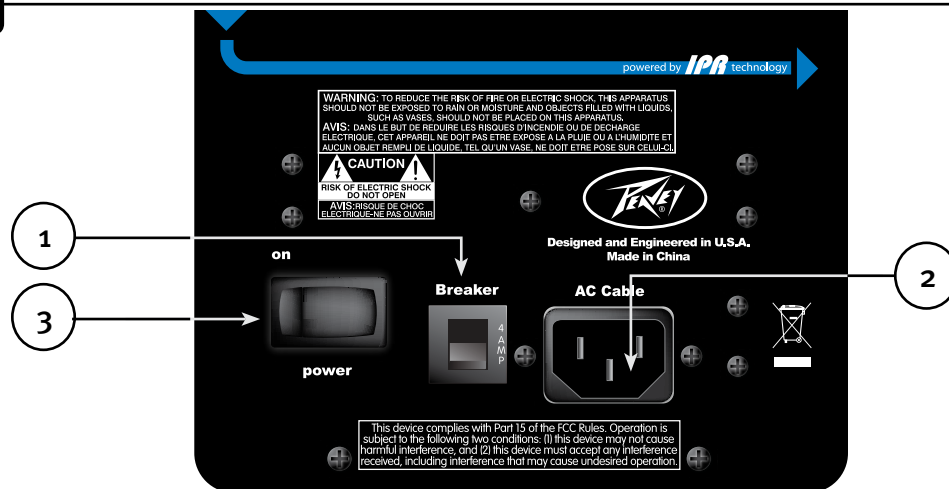
The combination of the signal-processed servo-controlled woofer with the ribbon tweeter provides a clarity and impact far beyond conventional powered enclosures. The Class D power amps and switch-mode power supply, along with the neodymium magnet systems on the drivers, provide this high level of technological sophistication at a very light weight and very reasonable cost.

APPLICATIONS

The Peavey Impulse® 12D has a variety of applications, including sound reinforcement, public address, side fill system, karaoke and musical playback.

A typical signal source for the line-level inputs of the Peavey Impulse® 12D would be a sound reinforcement mixing console (mixer) or the output from a CD player, MP3 player or tape deck. A dynamic microphone can be connected directly and used as well.

REAR PANEL BOTTOM



CIRCUIT BREAKER (1)

The unit is AC power line protected from overloads and fault conditions with a 5 amp circuit breaker. This breaker should not trip unless there is a fault in the amplifier circuitry or an abnormal operating condition which causes excessive mains current to flow. If the breaker trips, set the Power switch (3) to OFF, wait a brief period of time for the breaker to cool, then reset the breaker.

If the circuit breaker trips, the center button will pop outward approximately 1/4", and can be reset by pushing upward and inward. Under normal (not tripped) conditions, the center button is relatively flat.

If the unit continues to trip the breaker, or trips it immediately after being reset, do not keep resetting it. The system should be taken to a qualified Peavey Service Center for repair.

IEC POWER CORD CONNECTION (2)

This receptacle is for the IEC line cord (supplied) that provides AC power to the unit. It is very important that you ensure the proper AC line voltage is supplied to the Impulse® 12D. You can find the proper voltage for your Impulse® 12D printed next to the IEC line (power cord) on the rear panel of the unit.

Please read this guide carefully to ensure your personal safety as well as the safety of your equipment. Never break off the ground pin on any equipment. It is provided for your safety. If the outlet used does not have a ground pin, a suitable grounding adapter should be used and the third wire should be grounded properly. To prevent the risk of shock or fire hazard, always be sure that the mixer and all other associated equipment are properly grounded.



ON-OFF SWITCH (3)

This rocker switch supplies AC power to the Impulse® 12D when switched to the ON position. The ON position is with the left side of the switch pushed in nearly flush with the rear panel.

REAR PANEL TOP

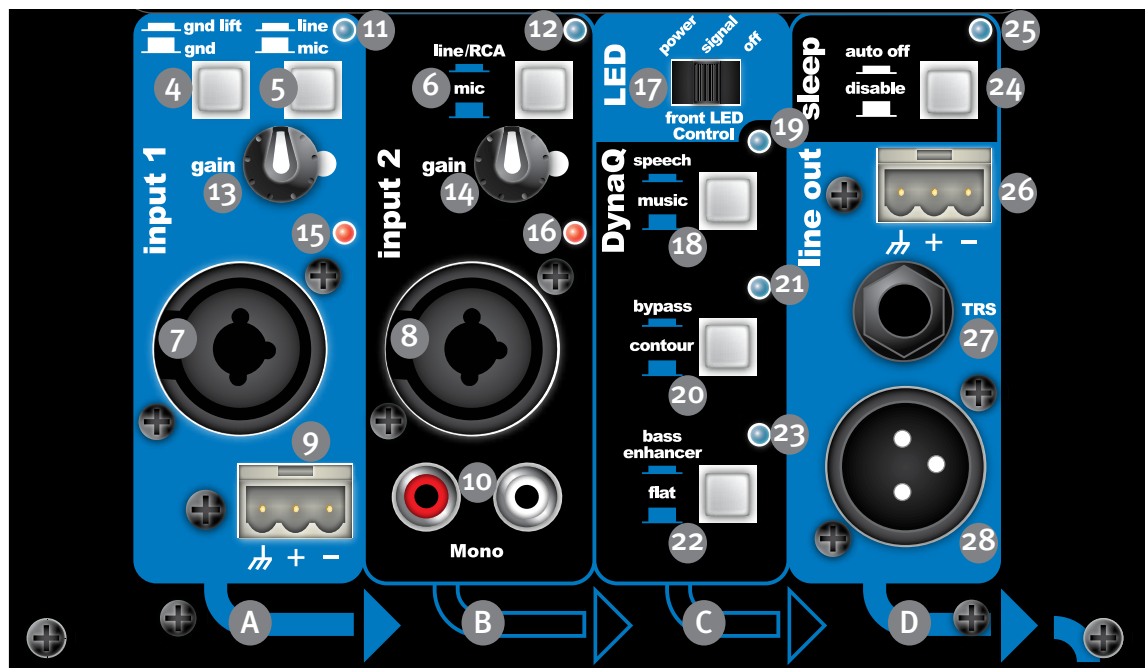
ACCESS PANEL FOR OPTIONAL EXPANSION MODULE

This panel is to be removed ONLY when installing one of a variety of Optional Expansion Modules that will be available soon for the Impulse® 12D. These Expansion Modules may include such options as a Wireless Input, a 10-Band EQ, a Digital Audio Input, etc.

These Optional Expansion Modules will either work in conjunction with the 2 inputs already present on the Impulse® 12D, or provide an in-line function for input 1, such as a 10-band EQ. Check with your Peavey® dealer for availability and price.

If you are not installing an Optional Expansion Module, then do not remove this cover. Instructions for installing an Optional Expansion Module will come with each Expansion Module and will be specific to that Module.

TOP – OPERATING CONTROLS, INPUTS & OUTPUTS



GROUND LIFT SWITCH (4)

Switches the XLR (7,8) PIN 1 (shield) from direct contact with ground in the event that hum occurs with the input cables connected. ALWAYS TURN THE GAIN (13 AND 14) DOWN ALL THE WAY BEFORE OPERATING THIS SWITCH TO AVOID LOUD POPS OR BUZZES! Turn the gain back up slowly and cautiously to determine if an improvement in the hum or buzz has been made!



INPUT 1 (A)

Input 1 is switchable between line-level gain and mic-level gain. The line-level input is medium impedance balanced. The jack (7) on the input 1 panel is a combo female XLR and 1/4" TRS connector. Input 1 also has a 3-conductor balanced Euro-style jack connector (9) wired in parallel with the above listed inputs. The signal to input 1 is mixed with the signal from input 2 and fed to the internal crossover and signal processing.



INPUT 2 (B)

Input 2 is switchable between line-level gain and mic-level gain. The line-level input is medium impedance balanced. The input 2 jack (8) is a combo female XLR and 1/4" TRS connector. Input 2 also has a pair of RCA phono jacks (10) wired in parallel with the above listed inputs. These are mixed in parallel with each other and are Mono inputs (not stereo inputs). The signal to input 2 is mixed with the signal from input 1 and fed to the internal crossover and signal processing.

MIC/LINE SWITCH, PRESENT ON BOTH INPUT 1 AND INPUT 2 (5,6)

Switches the sensitivity of the input from line-level to mic-level sensitivity. Pushed in, the sensitivity is set for line-level input signals. When the switch is not pushed in, the sensitivity is increased by 30 dB so it is suitable for mic-level signals. Note that this switch changes the input's sensitivity, but does NOT provide phantom power, thus the microphone used must be a dynamic type microphone.

MIC/LINE SWITCH LED, PRESENT ON BOTH INPUT 1 AND INPUT 2 (11,12)

Illuminates green when Mic/Line switch (5 and/or 6) is in line-level mode, and red when the Mic/Line switch is in mic-level mode.

GAIN, PRESENT ON BOTH INPUT 1 AND INPUT 2 (13, 14)

Controls the gain (level) of the input channel with which it is associated. It is used to directly set the system output level for a given input signal.

SIGNAL / CLIPPING LED, PRESENT ON BOTH INPUT 1 AND INPUT 2 (15,16)

These are located to the right and down from the GAIN knob for each input channel. It is off, or dark, when no signal is applied to that input. It flickers green in time with the music when a signal is applied, getting brighter with increased signal output. It turns red when either of the power amps clip or when the input channel is overloaded.



FRONT LOGO LED SWITCH (17)

This 3-position slide switch (17) provides a means to alter the signal information indicated by the front logo LED. The front LED indicator is incorporated into the logo on the woofer grille and normally glows blue for two of the three Front LED Switch positions.

With the switch in the "off" position (to the far right), the front LED is turned off. This setting can be useful when the light of the LED causes an artistic disruption.

With the switch in the "signal" position (in the middle), the front logo LED is blue when power is applied to the powered speaker electronics, and flashes red when the amplifiers are clipping. In this position, if the amplifier goes into protection mode, the front logo LED will stay red until the amplifier comes out of protection. The front logo LED is the only indicator that provides an indication of amplifier protection mode on the Impulse® 12D.

This switch position is recommended for use in permanent installations to maximize the information available to the system operating personnel.

With the switch in the "power" position (to the far left), the front LED is blue when power is applied to the powered speaker electronics, but does not change color when the speaker's power amplifiers are clipping.

DYNAQ™ SECTION (C)

The DynaQ section provides for a variety of tone shaping options or the selection of a nominally flat response. The Music/Speech switch (18) provides a dynamic treble boost that is signal level dependant (Fletcher-Munson type compensation) when in the "Music" or "out" switch position. When in the "Speech" or "in" switch position, the Treble boost is turned off, as is any Bass Enhancement if activated, and low-pass and high-pass filters are engaged to help roll-off the frequency extremes to assure a clean and clear vocal presentation. The "Speech" position is useful for direct interface of a dynamic microphone to the inputs of the Impulse® 12D. When the Music/Speech switch is pushed in, and the Speech mode is engaged, the LED (19) to the upper right glows Green.

THIS SWITCH IS OVERRIDDEN IF THE CONTOUR/BYPASS SWITCH (20) IS IN THE BYPASS MODE. THE ASSOCIATED LED (21) WILL REFLECT THIS CONDITION.

The Contour/Bypass switch (20) provides a flat response in the "Bypass" or "in" position. The "Contour" or "out" position allows the positions of the other two DynaQ™ switches to affect the tone. This switch overrides the other two switches in the DynaQ section, as the other two switches have no effect when in Bypass mode. When the Contour/Bypass switch is pushed in and is in Bypass mode, the LED (21) to the upper right glows Red. If either of the other two DynaQ switches (18,22) are engaged, the associated LED's (19,23) go out to indicate that their function has been bypassed.

THE BASS ENHANCER/BYPASS SWITCH (22)

Provides a dynamic bass boost that is signal level dependant (Fletcher-Munson type compensation) when in the "Bass Enhancer" or "in" switch position. When in the "Bypass" or "out" switch position, the low frequencies are reproduced in a nominally flat manner.

When the "Bass Enhancer/Bypass" switch is pushed in, and the "Bass Enhancer" mode is engaged, the LED (23) to the upper right glows Green.

THIS SWITCH IS OVERRIDDEN IF THE CONTOUR/BYPASS SWITCH IS IN THE BYPASS MODE OR THE MUSIC/SPEECH BUTTON IS IN THE SPEECH MODE. THE ASSOCIATED LED WILL REFLECT THIS CONDITION.

If full Fletcher-Munson type dynamic bass and treble boost were desired, then the switch settings would be:

Music/Speech switch (18): Music mode (button Out, LED dark)

Contour/Bypass switch (20): Contour mode (button Out, LED dark)

Bass Enhancer/Bypass switch (22): Bass Enhance mode (button In, LED lit green)

Then a single push of the Contour/Bypass switch (20) can restore the speaker to nominally flat response, while with the same starting point settings, a single push of the Music/Speech button (18) can provide a Speech contour with no Fletcher-Munson type contouring and with roll-offs at the frequency extremes.

SLEEP SWITCH (24)

Located above the LINE OUT section, the Sleep switch (24) provides a means to disable the automatic power off Sleep feature so that the Impulse® 12D remains on at all times. The automatic power off Sleep feature is disabled when the switch is in the "out" position, it is engaged when the switch is in the "in" position, and the indicator LED (25) to the upper right of the switch will glow green.

When no signal is present at any of the inputs for approximately 16 minutes, the automatic power off Sleep function will shut the power off to most of the electronics in the Impulse® 12D. The unit will turn back on if a signal is applied, but it will take a few seconds for the Impulse® 12D to start producing sound. This is due to the soft-start circuit, which ensures that the switching power supply is consistently reliable and functional. A disable function is provided in case the delay between the application of audio and the normal output of the Impulse® 12D is not acceptable to the user. The Sleep function will "wake-up" the Impulse® 12D after an indefinite time period, provided AC power is still present.

Note that when in Sleep mode, all LED's on the rear panel will be dark. If the front logo LED switch (17) is in the Signal or Power position, the glowing front logo LED will indicate the unit's AC power status. If the front logo LED switch is in the "Off" position, there will be no indicator lights active when in Sleep mode.

LINE OUT SECTION (D)

Line Out is intended to link multiple Impulse® 12D's in a line or to provide a feed to a powered subwoofer or other electronics that need to receive a full range version of the input signal. The connectors available are a 3-conductor Euro-style jack connector (26), a 1/4" TRS phone jack (27), and a male XLR jack (28). The output level is controlled by the gain controls (13,14) for input 1 and input 2, and is the sum total of any signals present at inputs 1 and 2.

OPERATING INSTRUCTIONS

CAUTIONS



The unit must be disconnected from the AC power source before any work is done on it. Refer all servicing to qualified service personnel.

The heat sink on the back plate can become hot to the touch. Do not block or cover the heat sink from ventilation. There must be a minimum of 4" of space behind the heat sink. Do not allow the airflow to be become blocked by objects such as curtains or drapes, thermal building insulation, etc. It is recommended that the rear of the Impulse® 12D not be placed in a closed space or a space that has no fresh, cool airflow.

Be sure to keep the microphone away from the front of the speaker after switching the mic/line sensitivity switch to the OUT position and while setting the microphone level, or very loud feedback will occur! Damage to the system is likely if this occurs! DO NOT connect the inputs of the Impulse® 12D to the output of a power amplifier. The inputs are meant to be driven from a line-level strength signal.

DO NOT remove the protective metal grille.



WARNING! The Impulse® 12D is very efficient and powerful! This sound system can permanently damage hearing! Use extreme care setting the overall maximum volume!

The apparent sound level of the Impulse® 12D can be deceiving due to its clear, clean sound output. The lack of distortion or obvious distress can make the sound level seem much lower than it actually is. This system is capable of SPL in excess of 131 dB at 1 M from the speaker!



FLYING THE IMPULSE® 12D

Caution: The suspension or flying of the Peavey Impulse® 12D must be done by a certified structural engineer.



IMPORTANT SAFETY INFORMATION FOR MOUNTING THE PEAVEY IMPULSE® 12D SPEAKER SYSTEM

Caution: Before attempting to suspend this model of speaker, consult a certified structural engineer. Speaker can fall due to improper suspension, resulting in serious injury and property damage. Other enclosures must not be suspended below this unit, nor should additional weight be suspended from one of these units. Use only the correct mating hardware. All associated rigging is the responsibility of the customer.

Always use all four inserts of a given group as a set; NEVER use just one insert to fly a cabinet! The four insert groupings are a top group of four, a bottom group of four, and a side group of four underneath the right side handle.

Do not use the inserts with eyebolts, even if all four fly points have an eyebolt installed and attached to rigging, as this still can stress each individual insert beyond its design ratings.

Maximum enclosure angle from vertical hang: 30°

Whenever possible, in addition to the nominal primary mounting method, use a suitable safety chain or wire rope, looped through the side handle or attached to one of the other groups of inserts, and firmly attached to a suitable structural member as indicated by a certified structural engineer.

The recommended range of torque for the mounting bolts is 3-1/2 to 4 lb/foot of torque. DO NOT OVERTIGHTEN! If an insert point is stripped and the bolt spins free, it has been damaged and the cabinet cannot be flown! We recommend the use of Thread-locker at the insert point bolts, so the bolts cannot vibrate loose.

Never transport the cabinet using the array bracket or other mounting brackets as a structural member while the cabinet is mounted on an array bracket or other mounting bracket and unsupported otherwise, as this may unduly stress the mounting inserts.



WARNING! (NOTE TO STRUCTURAL ENGINEER)

NOTE: The screws in the Impulse 12D fly point plate inserts are merely used to plug the mounting point holes; those screws are not intended to be used for attachment or flying purposes. Use the correct type and grade of bolt into the mounting point inserts. The correct mounting bolt diameter and threads per inch are: 1/4" X 20. Use of a grade five-bolt or better is recommended.

The middle screw of a smaller size in the middle of each mounting plate is a retention screw. It should not be removed from the insert mounting plate, and that location should not be used as a flying point. There is no 1/4" X 20 insert at this location.

The Impulse® 12D mounting inserts are designed to be used with the Peavey® Versamount™ 70 Plus mounting bracket (00454470 black, 00454460 white), as well as the Impulse® 12" array bracket (00386920 black, 00386940 white). It can also be used with the Peavey® Wall-Mount Speaker Stand (00922940 black, 00487390 white), which will fit into the built-in stand mount cup on the bottom of the cabinet.

CONNECTING AC POWER TO THE IMPULSE® 12D

The Impulse® 12D comes with a 6-foot IEC connection AC power cord. If you are using an extension cord or power strip with this powered speaker, make sure it is of good quality and of a sufficient current capacity to maintain safety and maximize the power output capability of the Impulse® 12D. For maximum undistorted output, do not connect any other device to the same extension cord that the Impulse® 12D is connected to. Do not exceed the rated current capacity of the extension cord with the sum total of all units connected to it.

When first plugging in the AC cord, make sure the power switch is in the Off position, and then turn it On only once the power cord has been connected. Built-in muting will engage when the proper sequence of steps is taken.

SPECIAL NOTE FOR PERMANENT INSTALLATION When installing the Impulse® 12D, AC power runs will be used and a certified electrician should be consulted to be sure that all AC wiring complies with local codes and regulations. It is also advisable to use a cable clip properly affixed to the cabinet to relieve strain on the IEC power cord connected to the amplifier module at (2) so the power cord cannot be pulled out or vibrate loose.

USE OF THE IMPULSE® 12D WITH A SUBWOOFER POLE TUNNEL

The built-in stand mount cup allows use with the Peavey SP® 118 Sub and the accessory pole that it is designed to use, Peavey part #00326530.

The pole used is 51-3/4" long and has a nominal diameter of 1-3/8".

Always be sure to place the subwoofer used in this manner on a flat, level and stable surface.

USE OF THE IMPULSE® 12D WITH A SPEAKER STAND

The Impulse® 12D has a stand mount cup molded-in so that the system can be stand mounted on a standard 1 3/8" (36mm) diameter stand pole.

WHEN USING STANDS OR POLES, BE SURE TO FOLLOW THESE PRECAUTIONS:

Check the stand or pole specs to make sure that it can support the weight of the Impulse® 12D (39 lbs./17.7kg), and observe all safety precautions stated by the stand manufacturer, including the maximum height for which the stand is rated.

Always place the stand on a flat, level and stable surface, and be sure to fully extend the stand legs as per the stand manufacturer's instructions.

Orient the stand legs for the least danger of tripping to those in the vicinity of the stand. Never block a doorway or hallway with the legs of a stand.

Route cables so that people will not trip over them or tip the speaker over. Use of duct tape, cable channels or guards, or other appropriate tie-down/cover-up devices should be carefully considered and implemented.

When installing or un-installing the speaker on the stand, it is a good practice to have a helper if possible, as it can be hard to "thread the needle" and mate the stand cup to the stand pole while holding the Impulse® 12D speaker system at arm's length. It is also helpful if someone holds the speaker stand and pole down while the Impulse® 12D is removed from the stand pole; this prevents the Impulse® 12D from pulling the pole up with it.

When using stands outdoors, never attach banners or flags to the stands or the Impulse® 12D speaker system, as strong winds may cause the speaker to blow over. If there is a possibility of windy conditions, it may be prudent to consider weighting or locking down the stand legs to prevent the Impulse® 12D speaker system from being blown over.

CONNECTING A SIGNAL TO THE IMPULSE® 12D

There are a variety of ways to input a signal to the Impulse® 12D. The two inputs (7,8) provide either a balanced mic- or line-level input, allowing the use of a 1/4" TRS (ring-tip-sleeve) type phone plug OR a male XLR plug, as well as a 3-conductor Euro-style jack connector (9) on input 1.

Unbalanced inputs are also provided, as the 1/4" input (7,8) can take a standard single-ended (tip-sleeve) phone plug. Alternatively, the RCA phono jacks (10) of input 2 can be used. The RCA jacks do not provide a Left and Right stereo input, as the Impulse® 12D is a monophonic sound source. Instead, the two jacks mix and buffer any two RCA sourced signals and send them on to the Gain control of input 2 (14).

Do not connect cables to the jacks while the unit is ON with the Gain knob(s) turned up! While a standard single-ended 1/4" phone plug-equipped cable will work well and the balanced input circuitry of the inputs (7,8) will provide some interference rejection, a balanced cable using either the balanced TRS 1/4" phone plug or the XLR plug will provide superior interference rejection and performance.

Sometimes, with difficult interference problems, it will be helpful to lift the shield ground on a balanced cable at the Impulse® 12D end by only using the ground lift switch (4). Check any input changes carefully, always turning the gain control down before plugging and unplugging cables or engaging the ground lift switch.

Use of high quality, premium cables is recommended for the Impulse® 12D, as these usually have better shielding and materials and will provide greater long-term reliability. The best option is a shielded, balanced XLR cable no longer than necessary to reach the Impulse® 12D. It is usually a good idea to leave some slack at the input to the Impulse® 12D and also to tape the cables down or run them under a cable guard to avoid anyone tripping over them or pulling the Impulse® 12D over when stand mounted.

GAIN CONTROL ADJUSTMENT

The Impulse® 12D is equipped with a Gain control (13,14) on each of the two input channels to facilitate use in many different applications. With the Gain control adjusted fully clockwise, gain is at maximum and the input sensitivity is 0.200 V RMS for full-rated output. When driving the Impulse® 12D from a mixer, it may be advantageous to reduce the input sensitivity by turning the Gain control to the halfway point. The Impulse® 12D will now more closely match a typical power amp.

If the mixing board indicates clipping of its output signals, then all of the Impulse® 12D power capability is not being utilized cleanly. Clipping the signal before it gets to the Impulse® 12D is not optimal. Reduce the mixer output level and turn up the Gain control(s) on the Impulse® 12D.

The amplifiers in the Impulse® 12D are equipped with DDT™ and multiple LED indicators to show that DDT™ has engaged (15,16, front grille logo).

If the sound seems heavily compressed, check these indicators; if it is blinking RED more than occasionally, then the drive level from the mixer (or the Gain control/s {13,14} on the Impulse® 12D) needs to be reduced.

When first turning on the sound system, switch on all upstream electronics first, then the Impulse® 12D with its Gain control(s) fully counterclockwise (all the way down). Begin checking levels with the mixer output level controls all the way down, and bring them up slowly with the Impulse® 12D Gain control/s set to the desired setting (one-third of the way up is recommended to start).

It is not good practice to turn the Gain control(s) on the Impulse® 12D all the way up and then try to control level only from the mixer, as this approach would tend to pick up excess noise. The best practice would be to run a "hot" signal from the mixer down the cable to the Impulse® 12D, and then turn the Impulse® 12D Gain control up only as much as necessary to reach full desired output. With this approach, it is necessary to verify the mixer output is not clipping.

If a particular input channel is unused, the best practice is to turn the Gain knob all the way down, or fully counter-clockwise. This minimizes any possible noise pick-up from the unused channel.

MIC/LINE SWITCH ADJUSTMENT

The mic/line switch (5,6) provides for the increased gain needed for microphone use into the two inputs.

Set the Mic/Line switch to "in" for line-level signal use and set it "out" for mic-level use. The associated LED indicator (11,12), which is located to the upper right of the switch, will glow green for a line-level setting and red for a mic level setting.

The unit is normally shipped with the button in the line-level or “in” position. However, before each use it is a good idea to check for the proper position of the switch, as it could be toggled inadvertently during transport or set-up.

Due to the 30 dB of extra gain that this switch provides, DO NOT leave it in the “out” position for line-level input signal use! This could result in input-stage clipping of the Impulse® 12D and cause unnecessary distortion.

DISCONNECTING AC POWER TO THE IMPULSE® 12D

We recommend that the Power switch (3) be used to turn the unit off first, and then the AC power cord can be removed. This minimizes stress to the power amplifiers and the transducers from turn-off transients. The power switch has an arc suppression capacitor to help during turn-off and tends to make a clean disconnect from the AC power, while the power cord IEC connector can make intermittent contact before finally becoming fully disconnected, e.g., as when wiggling the cord.

TROUBLESHOOTING

No Output at All

First, make sure the unit has AC power and is turned ON. Make sure the various LED's on the inputs of the power amp module are illuminated (11 and 12 will always be illuminated either red or green).

If not, make certain the ON/OFF switch (3) is in the ON position and check the IEC power cord connection (2) by ensuring it is fully engaged and seated. Make certain the AC line cord is plugged into a working AC outlet.

Finally, check the circuit breaker (1). (See the Rear Panel: circuit breaker section for safety instructions.)

Once assured your unit is getting AC power, check that the Impulse® 12D is getting a signal. Temporarily disconnect the cable running to its inputs and connect it to some other device capable of reproducing the signal (i.e., a power amp and speaker). If this produces a signal, make sure that all Gain controls being used have been turned up to a satisfactory level (one-third to halfway).

If the Impulse® 12D has been subjected to direct sunlight or excessive heat, the built-in thermal protection may have been triggered. If so, turn off the Impulse® 12D and let it cool for a sufficient amount of time.

If there is still no output, contact your authorized Peavey dealer or the Peavey International Service Center.

HUM OR BUZZ

If the Impulse® 12D is producing a hum or buzz, the problem could be AC outlet related. Try plugging the Impulse® 12D into a different AC outlet. If a different circuit (breaker) is used for the mixer and for the Impulse® 12D, it can sometimes cause hum problems. Unless it is not practical, it is best to use the same wall outlet (breaker) to supply power to both the mixer and the powered speaker.

Ensure that shielded cables have been used to route the signal to the Impulse® 12D's inputs. If speaker cables with 1/4" plugs are used as input cables instead of shielded cables, they will be prone to hum or buzz.

Hum may be ground loop related. It may be helpful to lift the shield ground on a balanced cable at the Impulse® 12D end by only using the ground lift switch (4). Check any input changes carefully by first turning down the gain control(s) (13,14) before plugging and unplugging cables, or lifting the shield ground at the speaker end by using the Ground Lift switch (4).

Check to make sure light dimmers are not on the same circuit as the Impulse® 12D, the mixer or any source devices. If light dimmers are used, it may be necessary to turn them full ON or full OFF to eliminate or reduce hum. This is a typical AC wiring/light dimmer interference problem, not a design flaw of the Impulse® 12D.

The third wire (ground plug) on the AC plug should NEVER be removed or broken off, as this is a potential safety hazard.

DISTORTED OR FUZZY SOUND

First, ensure the mixer (signal source) is not clipping or being over driven. Make sure the gain control(s) (13,14) on the Impulse® 12D have not been set too low. Check that the input plugs are fully seated in the input jacks (7) and (8) on the rear panel of the Impulse® 12D. Ensure that the proper MIC/LINE switch setting is being used (5,6) for line-level signals, and that a power amp has not been plugged into one of the input jacks of

the Impulse® 12D. If an extension cord is being used to provide the AC power to the unit, ensure that it is of sufficient current capacity and that it is not also being used to supply power to any other device.

The Impulse® 12D has built-in EQ to extend and smooth the natural response of the speakers in the system. Bass boost and HF EQ give the system a nominally flat response, so it should require little, if any, additional EQ. If excessive additional bass boost or HF boost have been added externally to the Impulse® 12D, it could cause premature overload at high SPL. Reduce the amount of any external (mixer, rack) EQ and see if that clears up the distortion.

Finally, realize that even though the Impulse® 12D is a powerful and high output unit, it does ultimately have limits, and it may need additional powered units (or a subwoofer) to provide enough sound output or coverage. In this case, try turning the mixer levels down a little to see if that clears things up.

If the system still exhibits problems after checking everything listed here, carefully note all conditions and check with your Peavey dealer for advice.

CARE AND MAINTENANCE

Your Impulse® 12D is a sturdy and durable product and will provide years of reliable use if properly cared for. Use common sense and read the safety warnings to avoid hazardous operating conditions.

The unit must be disconnected from the AC power source before any work is done on it. Refer all servicing to qualified service personnel.

SUNLIGHT/HEAT

Avoid prolonged exposure to direct sunlight, as this may cause the unit to overheat and thermally shut off.

Excessively hot operating conditions can also cause a thermal shutdown.

Do not store in extremely hot or cold conditions or extremely high humidity. Always allow unit to come to room temperature before use.

CLEANING

Never clean the Impulse® 12D while plugged in or turned ON! When the unit has been fully disconnected from AC power sources, use a dry cloth to remove soil or other dirt. Never use strong solvents on the Impulse® 12D, as they could damage the cabinet. Do not allow ANY fluids to drip inside the Impulse® 12D.

TOUCHUP

For an overall finish enhancement and protective coating, use gloves to apply a plastic finish protector, such as Armor-All® protectant or a similar product, to the surface of the plastic cabinet only. Note that the cabinet will be slippery after these treatments; rub them down vigorously with a dry, lint-free cloth to minimize this.

CHECK FOR SECURE HARDWARE

After the first few months of use and periodically thereafter, check the hardware of the Impulse® 12D for tightness, including the rear panel screws and the screws that hold the baffle and rear cabinet together. The unit is subject to a great deal of vibration, and this could cause them to loosen with use.

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The powered loudspeaker system shall have a frequency response from 60 Hz to 20 kHz. The peak SPL with inaudible distortion shall reach 131 dB with music as a source, when measured at a distance of 1M and driven to full output capacity. The system shall utilize a Peavey® 12" Neodymium Dual Voice Coil Scorpion® woofer and a Peavey RD™ 2.6 true ribbon driver tweeter. The nominal radiation pattern shall be 100° in the horizontal plane, and 15° in the vertical plane.

The powered, bi-amplified loudspeaker system shall have two input channels capable of being mixed together with independent level controls. On the rear panel, it shall have a group of medium impedance input connectors. For one channel, these connectors will consist of a Euro-style jack connector and a combo female XLR and 1/4" TRS phone jack. For the other channel, the connectors will consist of two RCA phono jacks and a combo female XLR and 1/4" TRS phone jack.

The combo female XLR and 1/4" TRS phone jack of each channel will have a gain adjust pad that provides 30 dB of gain adjust and provides for switching between line-level input signals and mic-level input signals.

The input section shall have a push button activated EQ system that provides for various combinations of nominally flat frequency response, response filtered at the frequency extremes, response with dynamic boost of just the high frequencies, and response with dynamic boost at the low and high frequencies (Fletcher-Munson style compensation).

There shall be a group of line out connectors consisting of a male XLR jack, a 1/4" TRS phone jack, and a Euro-style jack connector.

The system power amplifiers shall have an unfiltered frequency response of 10 Hz to 20 kHz which deviates no more than +0, -1 dB up to rated power, a damping factor greater than 100 @ 1 kHz into 8 ohms, hum and noise better than 90 dB below rated power, and THD and IMD of less than 0.1%.

The woofer amplifier shall be capable of 550 W continuous into a 4 ohm nominal load, and the tweeter amplifier shall be capable of 75 W continuous output into a 8 ohm load. Both shall incorporate independent DDT™ compression.

The input signal shall be electronically divided into high frequencies and low frequencies by a staggered pole fourth order slope line-level crossover at 2 kHz. The low frequencies shall be processed to provide bass boost, subsonic filtering and overall response shaping, and the high frequencies shall be equalized for response-shaping.

The enclosure shall be constructed of injection-molded polypropylene with a UL flame rating, and reinforcing ribs internally. A hand grip shall be incorporated on each side near the woofer and towards the front, as well as on the right side of the cabinet.

A powder-coated metal grille shall be provided for woofer protection. The cabinet shall incorporate a pole mount for speaker stand use, four tall sturdy rubber feet for floor standing use, and a group of four mounting point inserts each on the top, bottom, and right side, for flying use.

The outside dimensions shall be: 25.00" (63.5 cm) tall x 15.88" (40.3 cm) wide x 15.25" (38.7 cm) deep, and the weight shall be 39 lbs. Power requirements shall be: 700 Watts nominal, 100-120 VAC, 50/60 Hz Domestic and 220-240 VAC, 50/60 Hz (Export). The loudspeaker system shall be called a Peavey Impulse® 12D.

Impulse® 12D

SPECIFICATIONS

ENCLOSURE: Peavey Impulse® 12D

FREQUENCY RESPONSE: 52 Hz to 20 kHz

LOW FREQUENCY LIMIT (-3 dB POINT): 60 Hz

USABLE LOW FREQUENCY LIMIT (-10 dB POINT): 52 Hz

Internal power amplifiers (@120 VAC line):
Woofer - 1200 watts peak available power
CONTINUOUS POWER: 550 watts @ less than 1% distortion

Tweeter - 150 watts peak available power
CONTINUOUS POWER: 75 watts @ less than 1% distortion.

NOMINAL SENSITIVITY (1W @1M, SWEPT SINE INPUT IN ANECHOIC ENVIRONMENT): 100 dB (average)

MAXIMUM SOUND PRESSURE LEVEL: 131 dB music peak

NOMINAL RADIATION ANGLES: 100° horizontal by 15° vertical

TRANSDUCER COMPLEMENT: 12" Neodymium Dual Voice Coil Scorpion® woofer, Model SDC1288 and RD™ 2.6 with 4.75" long aluminum composite ribbon tweeter

BOX TUNING FREQUENCY (FBOX): 61 Hz

ELECTROACOUSTIC CROSSOVER FREQUENCY: 2,000 Hz

CROSSOVER TYPE: Internal Electronic two-way crossover with driver EQ, level matching, bass boost and subsonic filtering.

CROSSOVER SLOPES: 24 dB/octave (fourth order) low pass, 24dB/octave (fourth order) high pass, both with staggered poles and driver EQ. Unit has horn spatially aligned with woofer, so there is no need for phase alignment or time delay of the signals.

ELECTRONIC INPUT IMPEDANCE (NOMINAL):
 10 k ohms unbalanced
 20 k ohms balanced line level
 2.4 k ohms balanced mic level

INPUT CONNECTIONS: Input 1: One combo female XLR/ 1/4" phone jack providing balanced operation, with switch-selectable mic- or line-level sensitivity.

One 3-conductor balanced Euro-style jack connector

Input 2: One combo female XLR/ 1/4" phone jack providing balanced operation, with switch-selectable mic- or line-level sensitivity.

Two RCA phono-type jacks, which are buffered and mixed to monophonic for a summed signal. These are NOT a stereo input, as the Impulse® 12D is a single full-range sound source.

OUTPUT CONNECTIONS: One male XLR balanced output, one 1/4" TRS balanced phone-type jack, one 3-conductor balanced Euro-style jack connector.

CABINET MATERIAL: Injection-molded polypropylene with internal ribbing and bracing, and with textured finish. Molded material is dark gray, as is the metal grille. Available in a white version as well.

MOUNTING: Subwoofer pole-mounting or speaker stand via molded-in pole mount, flying via Versamount™ 70+, and 4 rubber feet for floor or stage use.

Dimensions: H x W x D
 Front: 24.89" (63.2 cm) x 15.63" (39.7 cm) x 15.38" (39.1 cm)
 Rear: H x W 23.13" (58.8 cm) x 7.50" (19.1 cm), 13.50" (34.3 cm) at second angle break

WEIGHT: 39 lbs. (17.7 kg)

ELECTRONICS AND AMPLIFIER SPECIFICATIONS:

ELECTRONIC INPUT IMPEDANCE (NOMINAL): Balanced inputs: 20 k ohms line level sensitivity selected, 2.4 k ohms mic level sensitivity selected

MIC SWITCH SENSITIVITY INCREASE: 30 dB

INFRASONIC FILTER PROTECTION: 36 dB/octave roll-off

WOOFER DRIVE MODE: Servo-controlled feedback for lower distortion and precise signal tracking.

PUSH-BUTTON EQ MODES OF DYNAQ:

Flat frequency response

Filtered roll-off of high and low frequencies (Speech Mode)

Dynamic boost to high frequencies (Contour)

Dynamic boost to both high and low frequencies, (Fletcher-Munson type compensation, Contour and Bass enhancer)

SLEEP MODE: When Sleep Switch is engaged, unit will shut down the electronics after 16 minutes of no signal input. Unit will come back on within 3-5 seconds of an applied signal.

NOMINAL AMPLIFIER FREQUENCY RESPONSE: +0, -1 dB from 10 Hz to 20 kHz

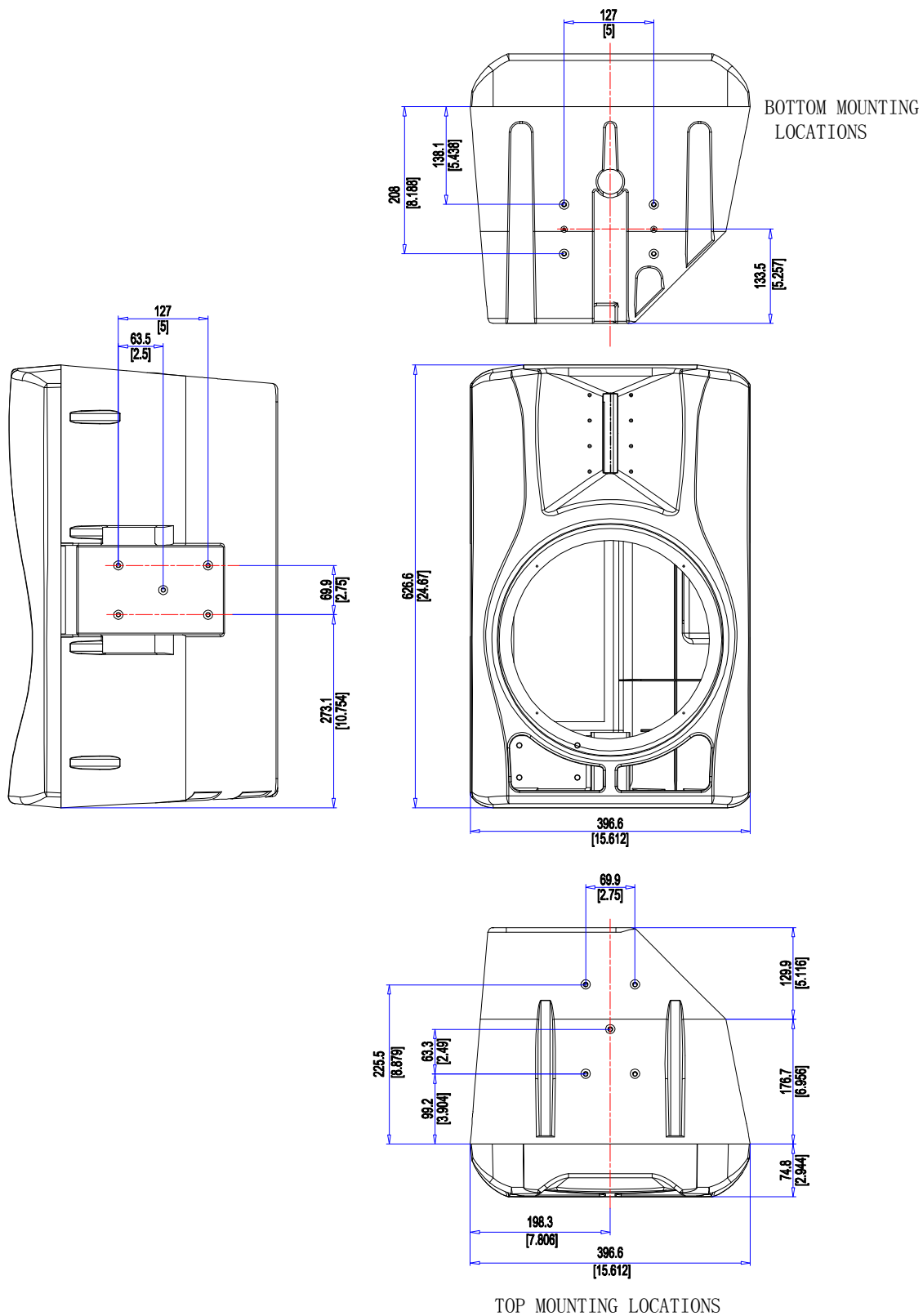
HUM AND NOISE: Greater than 90 dB below rated power

DDT DYNAMIC RANGE: Greater than 22 dB

THD AND IM: Typically less than 0.1 %

DAMPING FACTOR: Greater than 100 @ 1000 Hz, 8 ohms

POWER REQUIREMENTS OF PEAVEY IMPULSE® 12D SYSTEM (DOMESTIC):
 Nominal 700 watts, 120 VAC, 60 Hz

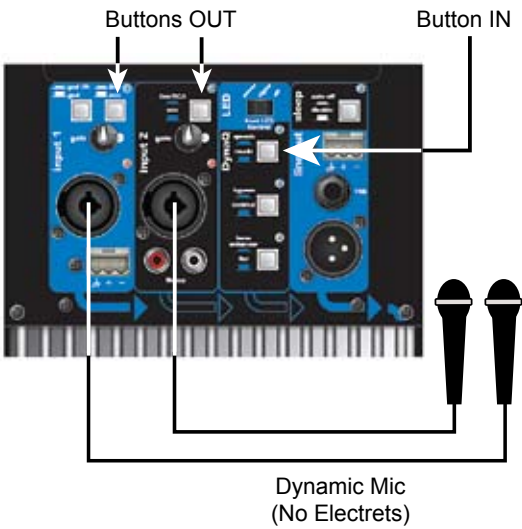


Features and specifications subject to change without notice.

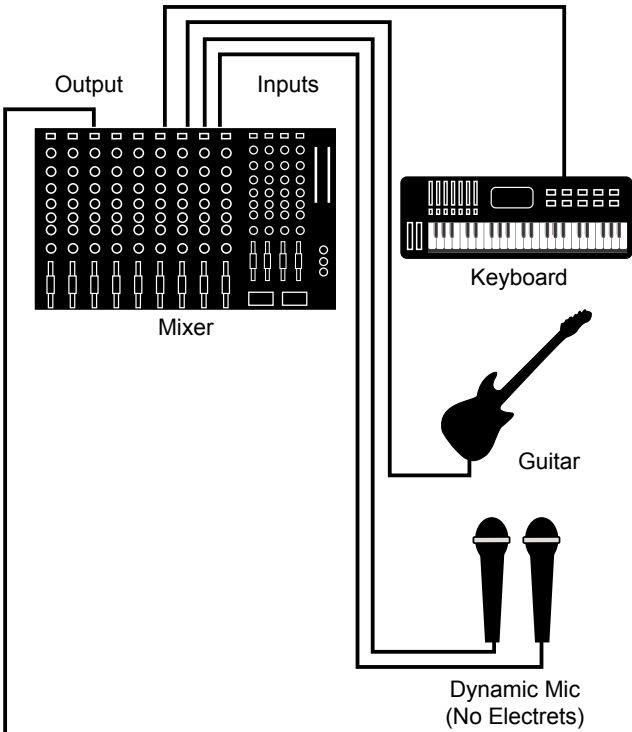
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HOOKUP DIAGRAMS

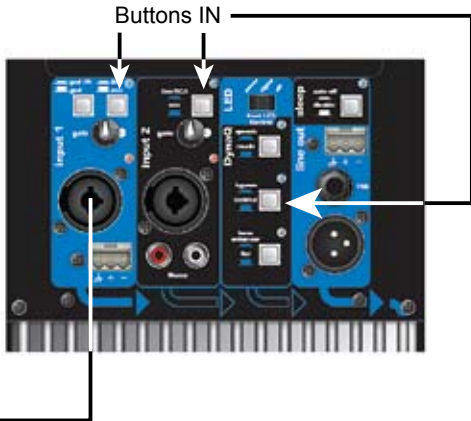
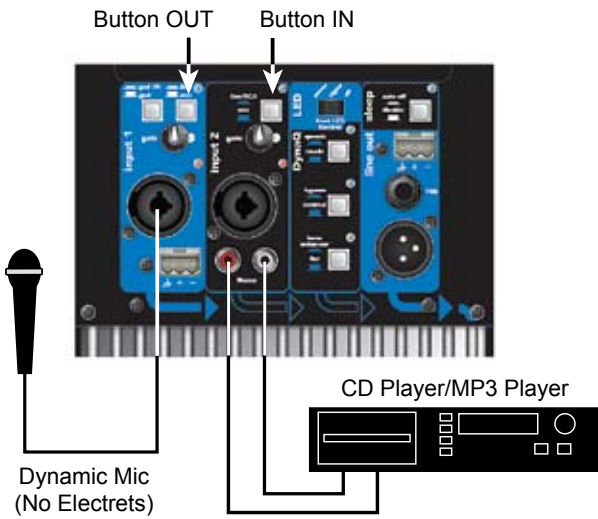
MICROPHONE DIRECT IN



MOST TYPICAL USAGE

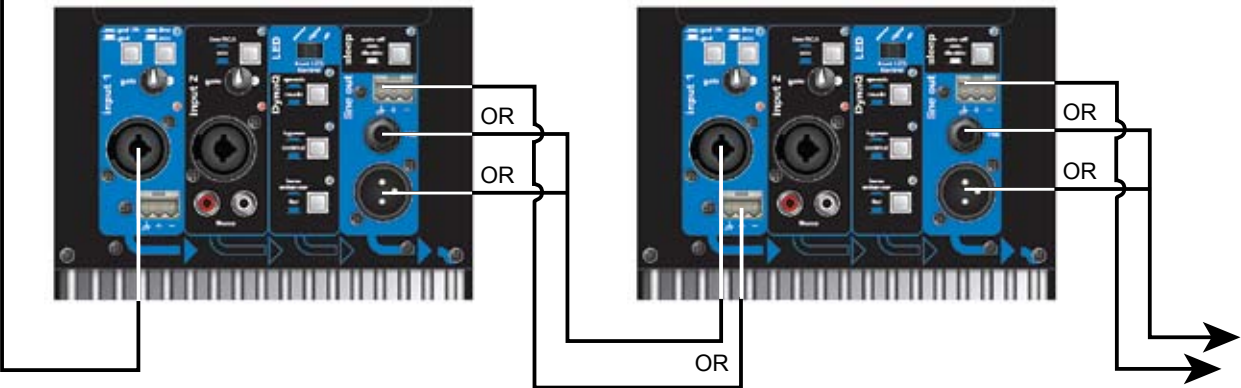


KARAOKE



DAISY-CHAIN CONNECTION (MULTIPLE SPEAKERS)

Input to 1st
Speaker



PEAVEY ELECTRONICS CORPORATION LIMITED WARRANTY

Effective Date: 03/04/2010

What This Warranty Covers

Your Peavey Warranty covers defects in material and workmanship in Peavey products purchased and serviced in the U.S.A. and Canada.

What This Warranty Does Not Cover

The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Peavey; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized Peavey Dealer.

Who This Warranty Protects

This Warranty protects only the original purchaser of the product.

How Long This Warranty Lasts

The Warranty begins on the date of purchase by the original retail purchaser. The duration of the Warranty is as follows:

Product Category	Duration
Guitars/Basses, Amplifiers, Preamplifiers, Mixers, Electronic Crossovers and Equalizers	2 years *(+ 3 years)
Drums	2 years *(+ 1 year)
Enclosures	3 years *(+ 2 years)
Digital Effect Devices and Keyboards and MIDI Controllers	1 years *(+ 1 year)
Microphones	2 years
Speaker Components (incl. Speakers, Baskets, Drivers, Diaphragm Replacement Kits and Passive Crossovers)	1 year
Tubes and Meters	90 Days
Cables	Limited Lifetime
Rockmaster Series, Strum'n Fun, Vectra, Rotor, OCC Stage pack, GT & BT Series amps, Retro Fire, Metal Maker and Iron Wing	1 year

[Denotes additional Warranty period applicable if optional Warranty Registration Card is completed and returned to Peavey by original retail purchaser within 90 days of purchase.]*

What Peavey Will Do

We will repair or replace (at Peavey's discretion) products covered by Warranty at no charge for labor or materials. If the product or component must be shipped to Peavey for Warranty service, the consumer must pay initial shipping charges. If the repairs are covered by Warranty, Peavey will pay the return shipping charges.

How To Get Warranty Service

(1) Take the defective item and your sales receipt or other proof of date of purchase to your Authorized Peavey Dealer or Authorized Peavey Service Center.

OR

(2) Ship the defective item, prepaid, to Peavey Electronics Corporation, International Service Center, 412 Highway 11 & 80 East, Meridian, MS 39301. Include a detailed description of the problem, together with a copy of your sales receipt or other proof of date of purchase as evidence of Warranty coverage. Also provide a complete return address.

Limitation of Implied Warranties

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

Some states do not allow limitations on how long an implied Warranty lasts, so the above limitation may not apply to you.

Exclusions of Damages

PEAVEY'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT PEAVEY'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. PEAVEY SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF PEAVEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If you have any questions about this Warranty or services received or if you need assistance in locating an Authorized Service Center, please contact the Peavey International Service Center at (601) 483-5365.

Features and specifications are subject to change without notice.



Logo referenced in Directive 2002/96/EC Annex IV
(OJ(L)37/38, 13.02.03 and defined in EN 50419: 2005
The bar is the symbol for marking of new waste and
is applied only to equipment manufactured after
13 August 2005

Optional Product Extended Warranty Registration

Give us some information and put your extended warranty into effect!

Please take a few minutes to fill out this information/survey sheet to help us get to know and serve you better.
To save time, submit your warranty registration online at www.peavey.com/support/warrantyregistration

1.

First Name _____ Initial _____ Last Name _____

Street Address _____

City _____ State/Province _____ Postal Code _____

() _____

Telephone Number _____ E-mail Address _____

() _____ - _____

Fax Number _____ Date of Birth _____

Gender ☐ M ☐ F

2.

--	--	--	--	--	--	--	--

Model _____ 8-Digit Serial Number _____

Date of Purchase _____ Price Paid _____

3.

Name of store where purchased _____

City _____ State _____

4. Top two (2) reasons why you purchased from this store/dealer:

- | | |
|---|--|
| <input type="checkbox"/> Availability of product | <input type="checkbox"/> Past favorable experience |
| <input type="checkbox"/> Friend/Relative's recommendation | <input type="checkbox"/> Best price |
| <input type="checkbox"/> Store credit card | <input type="checkbox"/> Advertised special |
| <input type="checkbox"/> Knowledgeable staff | <input type="checkbox"/> Convenient location |
| <input type="checkbox"/> Availability of lessons | <input type="checkbox"/> Received as a gift |
| <input type="checkbox"/> Technical instruction | <input type="checkbox"/> Other _____ |

5. Where do you most often shop for music and sound products?

- | | |
|---|---|
| <input type="checkbox"/> Independent retailer | <input type="checkbox"/> Newspaper ads |
| <input type="checkbox"/> Mass market retailer | <input type="checkbox"/> Internet/Web sites |
| <input type="checkbox"/> Mail order magazines | <input type="checkbox"/> Other _____ |

6. What two (2) factors most influenced your purchase of this product?

- | | |
|--|---|
| <input type="checkbox"/> Peavey brand name | <input type="checkbox"/> Product appearance |
| <input type="checkbox"/> Craftsmanship | <input type="checkbox"/> Durability |
| <input type="checkbox"/> Features for price | <input type="checkbox"/> Prior experience with Peavey |
| <input type="checkbox"/> Bundled accessories | <input type="checkbox"/> Packaging |
| <input type="checkbox"/> Sound quality | <input type="checkbox"/> Other _____ |

7. How did you learn about this Peavey product? (select best answer)

- | | |
|---|---|
| <input type="checkbox"/> Magazine review | <input type="checkbox"/> Teacher's recommendation |
| <input type="checkbox"/> Newspaper review | <input type="checkbox"/> Catalog or flyer |
| <input type="checkbox"/> Radio advertisement | <input type="checkbox"/> Saw in store |
| <input type="checkbox"/> Advertised special | <input type="checkbox"/> Use by professional |
| <input type="checkbox"/> Friend/Relative's recommendation | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Salesperson's recommendation | |

8. Which other brands/models did you consider?

9. How would you describe your level of musicianship/technical expertise?

- ☐ Beginner - Never played or taken less than one (1) year of lessons
☐ Intermediate - One (1) to five (5) years of lessons or playing
☐ Advanced - More than five (5) years of lessons or playing; play professionally

10. Education: (select best answer)

- ☐ High school
☐ Some college
☐ Completed college
☐ Graduate school

11. Which best describe your family income? (select best answer)

- | | |
|--|--|
| <input type="checkbox"/> Under \$15,000 | <input type="checkbox"/> \$75,000 - \$99,999 |
| <input type="checkbox"/> \$15,000 - \$24,999 | <input type="checkbox"/> \$100,000 - \$149,999 |
| <input type="checkbox"/> \$25,000 - \$34,999 | <input type="checkbox"/> Over - \$150,000 |
| <input type="checkbox"/> \$35,000 - \$49,999 | |
| <input type="checkbox"/> \$50,000 - \$74,999 | |

12. Which of the following is your primary source of information on musical products: (select best answer)

- | | |
|-------------------------------------|---|
| <input type="checkbox"/> Television | <input type="checkbox"/> Mail order catalogs |
| <input type="checkbox"/> Radio | <input type="checkbox"/> Direct mail |
| <input type="checkbox"/> Internet | <input type="checkbox"/> Literature from manufacturer |
| <input type="checkbox"/> Newspaper | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Magazines | |

13. What is your main motivation for buying new equipment?

- | | |
|--|--|
| <input type="checkbox"/> Replacing old product | <input type="checkbox"/> Impulse |
| <input type="checkbox"/> Want new and leading edge equipment | <input type="checkbox"/> Need for improved performance |
| <input type="checkbox"/> Fulfill a specific need | <input type="checkbox"/> New technology |
| <input type="checkbox"/> Supplement existing products | <input type="checkbox"/> Availability of product |
| <input type="checkbox"/> Value | <input type="checkbox"/> Other _____ |

14. Please list your three most frequently visited Web sites.

1. http:// _____
 2. http:// _____
 3. http:// _____

15. In your opinion, what could Peavey do to improve its products and/or service? Please use the space below to tell us your answer.

Thank you for taking the time to fill out our survey! Don't forget to fold and tape (with Peavey address facing out), affix postage stamp and drop in the mail!



Logo referenced in Directive 2002/96/EC Annex IV (OJ/L37/38, 13.02.03 and defined in EN 50419: 2005). The bar is the symbol for marking of new waste and is applied only to equipment manufactured after 13 August 2005.

FROM:

Place
Postage
Here



Peavey Electronics Corporation
Attn: Warranty Department
P.O. Box 5108
Meridian, Ms 39302-5108